

**CHEMICAL ARRAYS****ABSTRACT OF THE DISCLOSURE**

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Methods, apparatus, and computer program products to form arrays of polymers each having a pattern of features on a surface of a flexible elongated web, comprising. In a method polymers or their precursor units are applied at an application station to the surface. Multiple features are covered at a reagent station with a continuous volume of reagent which chemically reacts with precursors on the web. The flexible elongated web is driven in a lengthwise direction through the application station. This sequence may be repeated as needed to form the arrays along the web. Also provided is a method preparing a surface of a flexible elongated web to receive a biopolymer array.